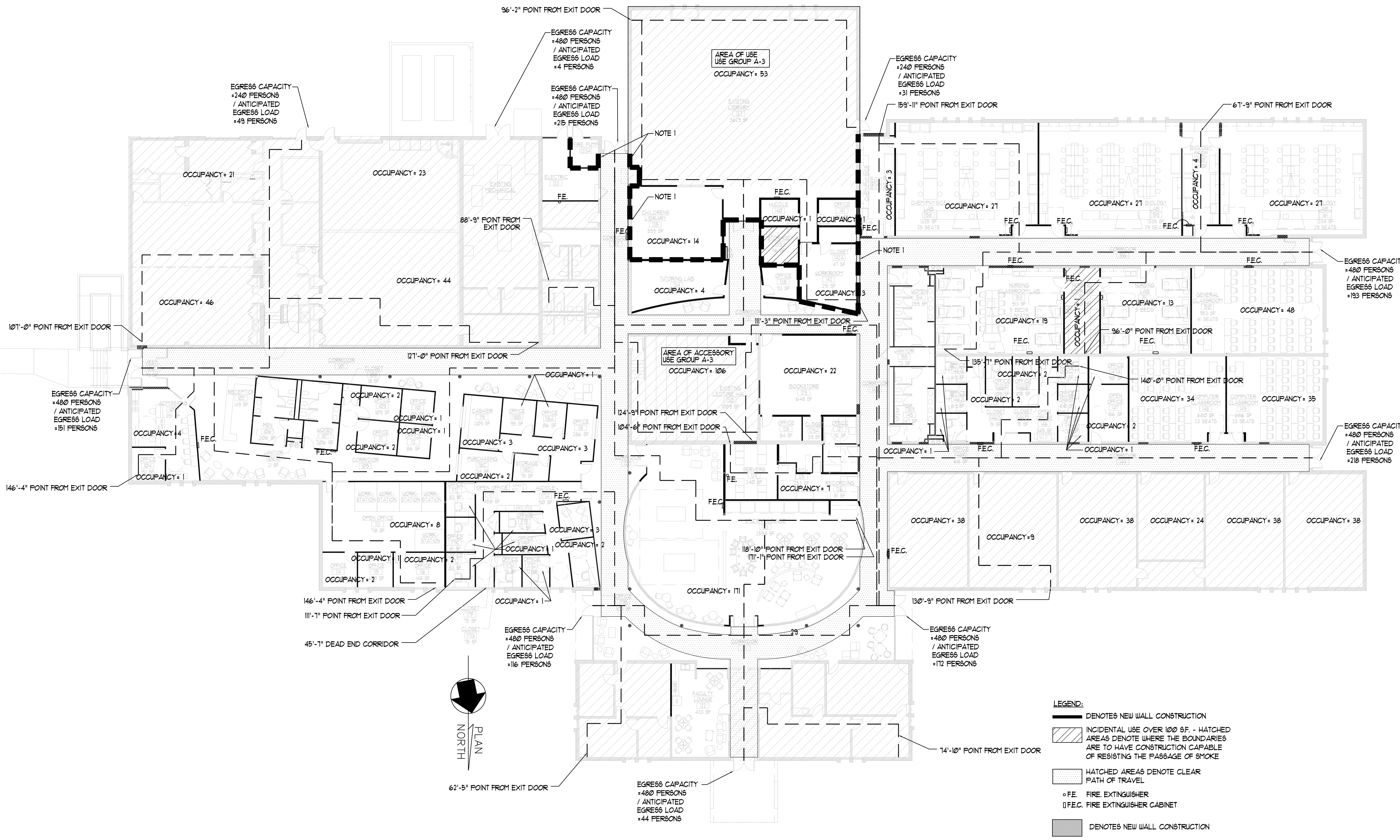

LEGEND:

- DENOTES NEW WALL CONSTRUCTION
- INCIDENTAL USE OVER 100 SF. - HATCHED AREAS DENOTE WHERE THE BOUNDARIES ARE TO HAVE CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE
- HATCHED AREAS DENOTE CLEAR PATH OF TRAVEL
- ◦F.E. FIRE EXTINGUISHER
- ▯F.E.C. FIRE EXTINGUISHER CABINET
- DENOTES NEW WALL CONSTRUCTION
- DENOTES AREAS NOT TO BE RENOVATED EXCEPT INSTALLATION OF NEW SPRINKLER SYSTEM
- 1 HOUR FIRE RATED PARTITION TO STRUCTURE ABOVE SEE PARTITION TYPES FOR ASSEMBLY NUMBERS.

NOTE 1: EXISTING 12" CMU WALL GOES TO UNDERSIDE OF DECK ~~MEETS RATING PER VUSBC TABLE 720.1 (2).~~ 3 ANY EXISTING PENETRATIONS IN MASONRY WALL ARE TO BE FILLED WITH AN APPROVED FIRESTOP SYSTEM.

1 GLENNS CAMPUS FLOOR PLAN
A-1G | A-1G SCALE: 1/16" = 1'-0"

0 5 10 20 30 50
SCALE: 1/16"=1'-0"

CODE DATA

EXISTING FACILITY BUILDING CODE
VIRGINIA FIRE SAFETY REGULATIONS
– LATE 1960'S

BUILDING CODES
2006 VUSBC
REFERENCING: 2006 INTERNATIONAL BUILDING CODE
2006 INTERNATIONAL PLUMBING CODE
2006 INTERNATIONAL MECHANICAL CODE
2005 NATIONAL ELECTRICAL CODE
2006 INTERNATIONAL FUEL GAS CODE
2006 INTERNATIONAL ENERGY CONSERVATION CODE
2006 INTERNATIONAL FIRE CODE

ACCESSIBILITY STANDARD:
ADAAG –JULY 23, 2004
–EXEMPT FROM ABA (PAGES 72 TO 140)

TYPE OF CONSTRUCTION
TYPE – II B
FULLY SPRINKLERED PER VUSBC 903.3.1.1

OCCUPANCY CLASSIFICATION
MIXED SEPARATED
GROUP B (BUSINESS) / GROUP A–3 (ASSEMBLY)
W/ ACCESSORY USE GROUP A–3 (3637 S.F.=LESS THAN 10% AREA)
GROUP A–3 (ASSEMBLY)

BUILDING USE
HIGHER EDUCATION / LIBRARY

ALLOWABLE HEIGHT (TABLE 503 + 504.2)

ALLOWABLE HEIGHT	2 STORIES / 55 FT.
SPRINKLER ADJUSTMENTS	+1 STORY / 20 FT.
TOTAL ALLOWABLE	3 STORIES / 75 FT.

ACTUAL: 1 STORY & 19'–9"

ALLOWABLE AREA (TABLE 503 + 506)
TABULAR AREA = 23,000 SQ. FT.

$I_f = \left[\frac{1,425}{1,425} - 0.25\right]\frac{30}{30} = .75$

$I_s = 3$

$A_a = 23,000 + [(23,000)(.75)] + [(23,000)(3)] = 109,250$ SQ. FT.

GROUP A–3 OCCUPANCY
TABULAR AREA = 9,500 SQ. FT.

$I_f = \left[\frac{1,425}{1,425} - 0.25\right]\frac{30}{30} = .75$

$I_s = 3$

$A_a = 9,500 + [(9,500)(.75)] + [(9,500)(3)] = 45,125$ SQ. FT.

SEPARATED OCCUPANCIES ALLOWABLE AREA RATIO

$\frac{47,857}{109,250} + \frac{5,128}{45,125} = .44 + .12 = .56 \leq 1$

BUILDING AREA

TYPE B OCCUPANCY	47,857 SQ. FT.
TYPE A–3 OCCUPANCY	5,128 SQ. FT.
GROUND FLOOR	52,985 SQ. FT.

EMERGENCY SHELTER
THIS BUILDING IS NOT DESIGNATED AS AN EMERGENCY SHELTER

SEISMIC DESIGN CATAGORY
EXISTING BUILDING = NOT APPLICABLE
NEW CONSTRUCTION = SEISMIC DESIGN CATEGORY "B"

OCCUPANCY LOAD (TABLE 1004.1.1)
SEPARATED B USE GROUP

BUSINESS =	28,964 GROSS SQ. FT. / 100 GROSS SQ. FT. PER OCCUPANT	= 290 OCCUPANTS
EDUCATIONAL = (CLASSROOM)	9,474 GROSS SQ. FT. / 20 NET SQ. FT. PER OCCUPANT	= 474 OCCUPANTS
EDUCATIONAL = (VOCATIONAL)	5,587 GROSS SQ. FT. / 50 NET SQ. FT. PER OCCUPANT	= 112 OCCUPANTS
MERCANTILE =	654 GROSS SQ. FT. / 30 GROSS SQ. FT. PER OCCUPANT	= 22 OCCUPANTS
STORAGE/MECH. =	2,335 GROSS SQ. FT. / 300 GROSS SQ. FT. PER OCCUPANT	= 8 OCCUPANTS
ACCESSORY A–3= (LECTURE)	1,089 GROSS SQ. FT. / 15 GROSS SQ. FT. PER OCCUPANT	= 73 OCCUPANTS
	ACTUAL NUMBER OF SEATS: 106	= 106 OCCUPANTS ACTUAL GOVERNS

SEPARATED A–3 USE GROUP

A–3 = (LIBRARY READING)	1,906 GROSS SQ. FT. / 50 NET SQ. FT. PER OCCUPANT	= 39 OCCUPANTS
A–3 = (LIBRARY STACK)	2,278 GROSS SQ. FT. / 50 GROSS SQ. FT. PER OCCUPANT	= 23 OCCUPANTS
BUSINESS =	698 GROSS SQ. FT. / 100 GROSS SQ. FT. PER OCCUPANT	= 7 OCCUPANTS

TOTAL OCCUPANT LOAD = 1,154 OCCUPANTS

FIRE RESISTANCE RATING (TABLES 601 + 508.3.3)

STRUCTURAL FRAME –	0	HR.
EXTERIOR BEARING WALLS –	0	HR.
INTERIOR BEARING WALLS –	0	HR.
INTR. BEARING WALLS(ROOF ONLY) –	0	HR.
NON–BEARING WALLS & PART. –	0	HR.
FLOOR CONSTRUCTION –	0	HR.
ROOF CONSTRUCTION –	0	HR.
CORRIDOR WALLS –	0	HR.
STORAGE OVER 100 SF –	0	HR.
SEPARATION (A + B) –	1	HR.

PLUMBING FIXTURE COUNT
USE AND OCCUPANCY UNCHANGED FROM ORIGINAL CONSTRUCTION

WATER CLOSETS

	MEN	WOMEN
ORIGINAL BUILDING	11 (7 UR.)	10
NEW DESIGN	11 (4 UR.)	11 + 1 UNISEX

LAVATORIES

	MEN	WOMEN
ORIGINAL BUILDING	8	9
NEW DESIGN	9	9 + 1 UNISEX

DRINKING FOUNTAIN

	TOTAL
ORIGINAL BUILDING	6
NEW DESIGN	8

SERVICE SINK

	TOTAL
ORIGINAL BUILDING	2
NEW DESIGN	2

EYEWASH / EMERGENCY SHOWER
TOTAL REQUIRED= 5
TOTAL PROVIDED= 5

nbj ARCHITECTURE
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RAPPAHANNOCK COMMUNITY COLLEGE
CAMPUS RENOVATIONS
WARSAW + GLENNS, VIRGINIA
PC: 260-17712

FIRE PROTECTION INORMATION
WARSAW CAMPUS

Date: JANUARY 13, 2010

REVISIONS	
NO.	DATE
2	REV. WORK 3/3/2010
3	REV. WORK 4/21/2010

COMMONWEALTH OF VIRGINIA
STEPHEN FLOYD CYBULSKI
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